STA. 195 MAINTENANCE COMM, DIV, 12-19-72

GD 346





12-19-72 Tested spore computer cards from STA. 108, D.C. L. 12-20-72 Tested space compiles carde from sla. 108. The computer would bomb then the room temperature would go above approx. 72°-740. so I run test to look for the problem. Found 2 connecter pins on card H-10 on the mainframs were widely sport aport. a.L. 12-21-72 - Ren some more test on the high room temperature bomb out of the computer, also shed all the conjuste cords for connecter pins that were swidely spored aport and regained. The computer would run good up to approx. 87-88. A.C.L. 12-26-72 - Mode a absolute mainframe exercises tope # 303001 B and a absolute Inst. Sinon, + Comp. tope \$ 303002 B. also run the Interface diagnostic communication test lock to back, 2. C. J.

1-25-73 Cleaned all gir filtes. Run the Communication test program and chief RFL levels and frege. It. L. 2-27-73 Chicago went always receiving a signal from STA. 195, Rin the commin. Test program and cherl RFL level and freque. The currier frequence 1696 and the BF occ. was 28.2998 Mc. Rest to 170 depa. + 28.3 Mc. Run the tost program book to back for I Hr. and there were no servors typeout. TC. L. 3-14.73 Installed a modified Chrier detector alasm HB-21025 with a coming out off circuit then the carrier is looked on a that came from the slop at STA, 106. 3-23-73 Cleaned all air fitlers. Using the new Modified to upper 16K looder program of run the following diagnostics 303001B, 30302B, 303003B, 303004A, 303005B 303006B 303007C, 303010A, 303014A, Interface diognostic pay, and the divertoce

Prognostic and every thing ched ak. Ord of the RPL carries at off circuit in the Corner detector alum HB-21025 and found that the relay MRB 2006 was studing needs to be replace and # 106 shop is sending one out, To f. 3-30-73 Replaced the bood Cornier detection alorn mod. HB-21025 with one from STA. 106 shop, and run the Commen test program to che, out the corner cut off circuit and every thing ched, out ok. T.C. L. 7-26.73 Run the Comm, Lest program and chal RFL levels + fregs. Der run dack to back because gas control said STA. 195 & 197 was intermit, Everything ched, ak. T.C.L. 4-30-73 Pan the Comm. Test program and ched. RFL levels of fregs. also run the back to back test, Everything ched ob. T. C. L. 4-27+29.73 Col. forbou sympometr 5-23-73

5-4-73 Run the comme test program and ched the RF & level of fregs, also run back to back test. Ched Mod. + Demod level on the MC-50 ch. 30 + 3 2. Everything ched. ak. A.C. L. 5-7-73 Teletype Substitution. De C.L. 5-11-73 Run the Comm, test program and had the RFL level to freys, also rin bock to book less. Chel May + Demod, levels on the MC-50 ch.30 6 32. Everything clark. ala. T. C. L. Run the comm, test programs and 5-21-73 we but to bock test chil rol. + Remod level on the MC.50 ch. 30 \$ 32. Everything chelok, Cleaned the connector on the RFL. drawers, Til Run the Mamory Worst Cose 5-23-73 diagnostic program No. 303010 A for 20 min. Energthing chol ok, Wso resun the Comm. Tool program back to back and everything chad. ale. TCL.

5-30-73 Ched all power supply voltage and reset the 3, 6 V. , 5 V. and 21 V. power supply. Itself the AC vallage into the computes and it avva 113 a5 Valle. ched the voltages from the Line driver, current driver and inshibit driver regulate 8269 and reset R7 output vallage. ched the Memory timing on 8270, ched the vollage on the Threshold regulator 6277 and reset the 12V with RII, it was 12,3 Valle, R6 was ok, Reched the Power fail safe \$296 6-1-73 Reched all power supply voltages. Old the voltage on the threshill regulator 8272 and reset the 126 with RII. Out + resit the voltages from the Line driver, The adje. the read + write current from the current drivers, Rintle the Mainfrom operiser 303001B, Compare Memory to A" and Memory worst Case 303010 A and energthing chilole. TCL.

6-7-73 + 6-8-73 Readquisted all power supply voltages. Ready, vultages on the line driver cords of 269 on both memorys, also ready, vallages on the threshold regulator carde. 8277, Odjusted the read and write corrents on the dual current drivers card No. 8959. But then I was running the memory worst case diagnostic tope 30 3010 A using the upper 16 K loads it would lose a 1 in bit 12 of locates 10732 + 10721. Went using the & K loader everything was ok then running the worst was deagnostice ched and regain bad pens on the back of the cords used for the old + New memory but it still didn't work, Found out by reversing the line driver carda 8269 from both memorys and running the worse case diagnostic tape it would work ak, ched the line driver voltages, read + write currente but nothing had changed, Reversed the cards buch to the original way and the worse case diagnostic would not rum, So I reversed the line driver

and fugs, and also sum back to back. Everything clark ak. The C. L. 6-26+27-1973 Run the room tengs up to see show the computer would run and found out that I would bout out at appear 80 to 82°. Ched all cord pin widely speed pins out repaired under spaced sins. Then the compair would go up to approx. 900 before if would bomb out, T. C.L. 7-9+10+11 The control panel reading such as mainline suction pressure, mainline discharge presure and etc. would go to there min value internitting went running the programs tape. Run the following topes who, 30300 2 B, 303005 B, 303006 B, 30300/B, 303014 A, and 303010A, Then running the interfore diagnostic tope in the A/D Comoversion test the read out would intermittenly go to min. Fould a pin AV in connecter flo on the boch of rock IF2 that was not

push all the voy in so I repaired. Then
The A/D text world at all the time.
Who run the program tape to see it
world temps the program would bomb out
and it was at approx, &8°, Run the
composite disgnostic program tape \$50

and everything ched ale. I.C.L.

7-19-73 +7-20-73

Hod a proform in the A/D section of the computer and the computer wouldn't read out the presses and the Foods a bod teanister Q3 2N3503 on coad 43321 2 diver and also coul. No. 43326 hope intermetten trouble which alon took back to Beatrice to repairs down installed a transient supposessors on the Porax and the computeringuite, The Shod and 10 times and the computer didit bount at. But the porax didit bount at. But the porax didit come on 3 times. The f.

7/25/73 The to program world intermitting bomb out . Rim the memory woust Case tape for approx. Ithe and got 2 mistakes, It would loss a one! in lif 14 at different locations, Chap and regain all pine on the cards for both memorys. But this didn't seem to help. Ched voltage an current duriner cord 8269 and ready the voltage on 6K18 for 18.4 rolf which was low, ched the voltages on the threshold regulation coul \$277 and everything was ale. Ched the current drives 8959 read + write current and everalthing looked ale, Rerun the menning worst case tage for 1/12 and everythering this time worked ale It. C.L. On 7-30-73 the parax was removed and the Dolation was hocked lock up, Do I reched the solution valtage and weset all the power supply valtage in the computer. Ready. valleys on the line driver cardo 8 269 on both memorys also really voltages an

the threshold regulator confo 9277, Odjuided the real + write currents currents on the dual current driver curda, No. 8959, Reason the memory worst case diagnostry Tape 3030/0A and everything ched ale. lum the power to the Solatron on Loff 10 times and everything ched ok. TCL. 8/2/73 Run the Puty Modem + Communications test program buch to both and Chief and resett RFL levels & fregs. It play one hour back to back with out a eros, 8/3/13 + 8/7/13 + 8/8/13 + 8/9/13 The computer would intermittely bomp out went turning on off the power to the Galator, and sometimes the loads tope and the program tape would not lood back in the computer, And oil power supply vallage and live driver voltages and read & write current and ready, from if need but have were all aboutwright. This didn't seem to help the problem. On 8/7/73 Juge out the memory raide

one at a time with spores from Beatine but was anable to locate the pasoblem. On 8/8/13 Il fould by replacing and No. 4639 Puta sover the computer would work ak. 8-13-73 + 8-14-73 Worked on the computer looking for the internet problem of the computer bombing out went the power wood turned on taff, Had no luck. It C, L, Replaced the spore A.D cord No. 83326 with the one that alon tooks to Bentrice 7-20-73 that Ind a intermit problem in it and be repaired. Olso the TTY reader didn't work and found or short dische CR3 in the reader power supply, Replaced the bod diale and the TTY reader world ok. Tried turning the computer power on + off approx. 30 times and everythings chel. ok. T.C.L.

Replaced bad nickel-cadming botteries 12 volt in the parabam clock. 8-23-73 Ready. the RAL levels + frys, Installed the Low fey, clock coul No. 6717 in the TTV that was reported d do. 104. T.C.L. 4-30.73 Clemed all vie filters in the comparter. doded some grounding shaps to the computer chief the RFL level & leade and everythings was ok, I (f) 9-5-73 When through the adig procedures for the RFL Mydem and chil Fregs. t level of the RFL. and Dreighburg ded als Or C. L. Oler the Parabom Light clock would go to zer morth goer Juys, and you hours then the A.C power they off and then bock on cleared the veloy KI in the

PM 12 = 3-P200 power supply and them the chock would look the wright should, Juge, and hours, T.C.R. Sapt. 7, 10+11 Calibrated Foobbre equipment . D. C. L. Supt. 2/1973 Reen the Comm test Program because Gas Control was gothing a poor report. The RFL Level of Flegs, all look good, also the MC-50 Mid & Remod level look good. also it played back to back for 1the Soft. 27, 1973 The Parabon clock would intermitty lose the Month + Pry (go lock to 1 Month + I day) went the A.c power would go in + off. Fordy a leaky transister Q1 40251 in the Power supply board assay, 34857 and replaced. Also found a leaky transister Q7 2N1539 on the Power supply PM12E3-PDO but delit have one so I ordered one from

the shop of sto 106 and wheth I receive it I will replaced the bad transister. 202 Oct. 3, 1973 Replaced a lealy traveistor Q7 2N1539 in the power supply PM12E3-P200 and they turned the power on off several times to che that the month + Ray didn't go bock to me would + breeday and everything ched out ok, also run the Comm text program and had the RFL levels + Frego. also run boch to bush for 45 mins. and everything deed out ob. ad, 4+5, 1973 at 10:00 Am 10/4/73 the compute bomb out when the A.C power was living on toff. then was unable to look in the bootstap loaler, ched the operation of the enter sured on the control panel by grounding pin 13 of IC-14 and putting the enter switch up and with the seap on pin 10

of ICIO look for a He went pushing down on the stop witch. Everything ched ok ched the read to write currents from the lower & the current driver cand \$ 895 9 and found that the X- read current was only 200 ma went it should be 360 ma. Was insble to adj. the wrent. Found the transister Q3, 2 N 3 134 was open and I replaced. Ready the Line daire, # \$269 vollage and vadjed be X- revol current to 360 ma. The computer above. The O.J. 19, 1973 Completed the following chis, on the computer. A,-AG, B,+B3, C, +C2 C2 power supply voltages. Model 222 (-61 = -5,865 vollo) (-101 = -9,587 volls) (-16V = -15,061 well.)+4UV = +33,450 wells) (+16V = +17,381 votts) (+35V = +33,176 rult (+2/1 =+2/,06 volts)

Molel 223 (compants main frame) 3,6 volt = 3.596 volts Model 221 3.6 volt = 3,606 volts 5 Volto 2 4.961 volta Model 223 (For night interface rock) 3.6 volt = 3.600 volt C3, C4 (A- accumulater > 105) cs, Dy, D&, D, C, L, Ot, 24, 1973 Completed the following chas in the Computer A-C input voltage 117.5 KA.C. Nor. 2, 1973 Received a new program tape dated 10/25/73 but one was damaged in slegging for I made a new tape with the spore, looded in the new days into the computer and chef it out in locate control and everything seem to che out ok, Relooded in the old tage Julas 7/3/73. O.C.L.

Nov. 5, 1973 Tooded in new program tope dated 10/25/73 and ched with chings and everything shed oh. T.C.F. Nov. 1, 1973 Rua the Comm. Test program + dol the RFL level & freys, ruon no errors. I C, I, Nov. 26, 1973 Run the Comm. Test program + Charl the RIL lovel of freys, Russ bouls to book for 142, and there were no errors. He computer bombed the night of 11/23/73 so I rem the Compare memory to A Memory tool + the PWR First-outer result and everything world ok. To Cide also cleaned all we fifteen in the conjule,

Dec. 5, 1973 On 12-4-1973 the operator was wable to reprogram the computer. I found that when looding in the looder tages it wouldn't stop a the end but would go all the way throught the resoler. Reglaced a 21/4 A SLO-BLO fuse part No. 165734 and Ilon everything worker oh. Ren the Memory worst case tope 30.3010 A tope and everything ched out ale. Dec, 18, 1973 Rua the Comm. test pergroms and dred the RIL levels & Hogy, Ren lock to boch for 11/2/1 ro, with no engs. Everything look ok. A.C.L. The corrier from Chingo was 1696 cys, Dec. 19, 1973 Cleaned all the comparter + interforce air filters. Installed grn, wire to the 2RI, 2R3 sharles and also between the

middle interfore rock and the mainfaome rock. Itr. TC. E. Pec. 19, 1973 The computer bombed about 3 p. 19. and I was unable to loved is the lovedes tage. By leaving three ceres to the memorys off and the main frame door open the computer would run of The problem was intermitt. (work overline /21/10.) t. C. P. Dec. 20, 1973 Worked on the people, above but the computer worked als all day contill about 2:15 PM, and then I was very intermitten. and was mable to find any thing setting. IC. L. (4//20. Per. 21, 1973 Worked on the problem above. When the upper 16K memory cover plate was off and that mainframe door open the memory voorse case tops worked als. But when the cover was on and the door closed.

after approon. 15 to 20 min the memory world bomb out. Was unable to find the problem so I left the cover off out the door open. (10/2/12, T.C.J. Worked on the alove perblem. Ruon the room temperature to 880 F before the memory worse case tape would bomb out. Never did get the computer to lond and at mornal temperature, 6112. T.C. L. 2-27-73 Ready, the computer moderns from 2000 Bile-per- second to 1667 Bilefee - second. Played lade to book for 1/2/1 rs with ord a error, (4 Hrs.) T. C. L. The computer bornled out I lines because of A-C failed but was unable to find any thing wrong I was unable to get the computer to bonds out. T.C.L. (4Hza)

1-2-74 Worked as a intermedien bomb out problem but was unable to get the computer to bomb out. Run the composite diagnostic program tope without any errors, (5Hrs) a.C.L. also run de room leagpeation, up to 86° without a bomb out. 1-4-74 Run the Comm, test program & ched the RFL levels + freqs. Run book to boch for 1'2 Hrs. without a erros. Chings did say that on 1-2-74 + 1-3-14 the compacter didn't negert every good. 1-9-74 Run the Comm test program + chef the 19 F L levels + fogs, Run buch to buch for 11/2/12 willand a error. Oned all our filters. T. C.P. (5 Hrs.)

Replaced 2 bod form moters one in the middle interfree rowk model No. 80-004 and the other one in the 3.6 V power supply in the West rock the for model No. 4500 TC. J. 3H2. 1-21-74 The programmed bombed on the 1-18-74, 1-19-74 so I runa the following diagnostic tapes to see if I could find any thing wrong; memory worst case 303010A, Loal stire 1 Reg. bot. 303005B Inst. Seine .+ Comp. 30 300 2B Mainframe Exercise 303001 B and the Interface - May. Veryly Led 303014 and everylling dred out ale. DC. L. (41122.) Replaced a bad for motor on the model No. 222 power supply. adj the 21 Wet port. Readjed the power fail sufe cord. \$296 at leatin 96. 41/45

1-31-74 Del De following soutine mont.
A3, A4, A5, A6, B1, B3, ACL. (4Hrs.) 2-27-74 Rid the following routine mount, A, A2, A3, A4, A5, A6. aloso was teletype was waking a little noise so I oil some point around the motor ded it sounded much better (5H2s) 3-6-74 Gos Control reported that the compute didn't report lock 18 times clark night. Ched the RFL fregie and levels and everything bock for 45 min, without a mistake Reset ch. 30 mgd, any. leals and ch. 26 damplang. lead. 3-20-74 Revised the RFL Modern odj. procedure as to the Murch 15, 1974 letter changing the

fit or second from 1667 BPS to 1200 BPS. The the RFL lands + freque and play book to buck for 45 min without a ersoc, Chel with Ron Jepson at Chicago and everything dud out ale. D.C. L. (4Hts.) 3-22-74 Did the following maint on the computer. Az, A3, A4, A5, A6, B. C. P.(2/120) and run bock to lock I He without a error. Ched with Ron Tepson at Chicago to see how I was reporting & everthing seem to be ok. OI C. L. (1/2 Hrs.) 4-11-74 Rid the following Semi-Annually rootine maint on the competer. A 2, A3, A4, 45, A6, B, B3, Ca, C3, C4-A-vecum 105, C5, Power Supply voltages

4-11-74 Model 222 +16V2 17,375 V. -61= -5.870 V. +35V= 33,154V, -1003 - 9.580 V. +2/V2 21,000 V. -16V= -15,295 V. +40V = 33, 170 V. Model 223 3,6 Volla = 3,620 Volla, Model. 221 3.6V= 3.6 Vote 5 V. 2 5.0 B Vall, Model 223 (For night interfole rock,)

3.6 Valt = 3.620 Valt,
6 Hz, T.C.S. 4-15+16+17 - 74 Cul. Forbore equipment. T.C.L. 4-19-74 When though the photodiode amplifier very the neutral denity fills tec. L. 2Hz,

5-7-74 pil the following monthly maint.
on the computer. Az, A3, A4, A+, A6 T.C.F. (1H2) 5-17-74 the computer bombed out 3 times between 5-16.74 + 5.19-74 so I running the following deaphostic laps 303001B 303002B 303003B 303004B 303005 B, 30300 GB, 3030070 3030086 and 303010 A without a enor. also ched the Two. foil and restort circuit and it worked ak. 6th, Co. 5-19-74 The competer brombed two traves some 5-14-14 and two times on 5-19-74. When I got here Durday bright the computer displays realing were all reading wrong. But when I reprogrammed everything was at, Russon the following Liagnostic PCS#1 and everything was ok. The L.

5-20-74 The computer bond out al about 9:30 A.M. Reset 3, 6 + 5.0 Vall power supplies. Ready the memory voltages + read I winte currents in booth memory. Readjed. the power ful ciscinto. Run the memory worst case tupl and run the temperature up to 840 without a error. lun the power on + off approx, 10 times and those comparter lombe out I time. 6th. Te. C.L. hum the power on of the the computer several lines without a bomb out, Reclard the 3,6 V + 5.0 valt power supplies. Fond blad the 5.0 Yalt power supply was varying. Found a lose pin in connector CD-7 m the voiled which is the 5.0 Volt wire, Run the composite diagnostic programs tope without a server. A.C.f. (642s).

6.74
Piel the following monthly maint.
on the computer. A2, A3, A4, A5 + A6.
(1H2) DGL. 6-6-74 6-21.71 The comparter missed reporting the night before. Chad the RFL level + frys, and also ched the Mod, + Demal level on the MC.50 multiplex but everything ched as. Ron the commo test bock to back for 1 Hr willoud a error. GCF. 1/2/1/2 4-26-71 Ched the RFL levels + frogs because Chicago said the compaide wasn't reporting backs all the time, Everything look ols. Had Ron Jepson at Chicago take a look at les Control ito see how sto. 195 was reporting book. It wasn't reporting bock as good as the other stations so I made a small asly in the bios of bolonce adjustments. To C. L. 3H as p 6-28-74 Chal the RFL levels & frogs. because Chicago said the computer would reporting bock all the time, Ready, the bins + balance on the FS Receiver 4 B-21045 and run boch to boch willout a error for 45 ming, (2Hrs) Rechef the RFL levels + fregs persuse Chicago soil the conjute was reporting buch slow on the reasons, Everything Ind out ok. also ded she operation of the schmill trigger and it was working als, ACL. 7-3-74 Rechy the RF L Duly of frage because Chicago soil the conjuter was reporting back plow on the readerly Everything ched out oh. Ready Ry on the Freg. Clock Court in shot 12 A in Rm Jepon in Chicago said the resolute medical covering in new good. TC, L. (24/191)

7-5-74 The computer report love to chingo the night before approx 37%. Recked the RFL level + frego and everything ched out de, Rody le low freez clock cord. Rr of leve. 12 -A. Ched with Ron Tepon in Chingo to see the read outs where working, To C.L. (21/2) 7-9-74 Run the composite diagnostic program type inthemat an error. But was perable to complete running the tape because of the lack of time. (Node) The tape had several sholes (5 Hrs. TCS.) with dirt in the loles and the tope would stop on me and I would have to stood one, 7-10-74 Run the composite diagnostic program last without on error. Reflore the RFL modules with spore from Beatries and run the comm. test program, (6ths. T.C.L.)

7-23-74 Replaced all the RFL modules with to 195 modules, replacing the space RFL modules from sta. 106, Run the com, test program and set all fugs. + level. for book to back for 30 mins, without a error. Reprogrammed with the sla program touge and there were very few interrupts, Chal with Ron Tepson in Chicago and le soid the conjunto Do replaced the To syre and No 97/2 + the Galog C. O. cord NC 8705 in location 1-26.74 Run the Inst Simu + Comps test program with 98 successful cycles without a even. I. L. (142) 7-30-74 Clayed around the two Privates Interrupt cards. NO 8242 at obsertion IRI 2A+2B.

7-30-74 Run the com test grogien and rocked, the RFL oguipment Played book to book for 45 min without a error. Chod with Chicago to see how the compate was regoring but the moster computes word working. ICP. (3ths.) 7-31-74 Pur the Pur. Fail-outo restant kope and ched out the pure fail issuent out everything ched and ob, Rin the Ind, Sime, + comp, led program and I had a few errors, Found two pins on cond. 8500 at location E-5, that where spore aport and repaired. Replaced the following conda at locating 2R1. 25A 13A, IVA, and runa the compon. Test program to the RFL. Chad the comm. between 50.195 + Chings . (7 42) R.L. 8-9-74 Run the composite diagnostic program tape without an error. Replaced the micro suntch on the high speed reader. T. C. L. (4 h). 8-14-71 Pil the following onmul moint on the Model 222 Ryple Model 221 Rigila 3.61,= 3.60 - 6.3mv -6 = -5, 8692 - 19 mr. 5.0V = 5.00 - 11.2mr. -10 = -9.594 - 7.4mv -16 = -15,190 - 36 mv. Model 223 +40 = +32,981 - 2,8 mv. 3.6 - 3,602 - 1.45 m 4. 1,6 mv. +162 17,40 -+35 = 33,178_ 3.2 nr. Model 223 (For night) ,59 mv. +21 = 21.00 -3,6 V = 3,6 V. - .64 mv. TC. L. (6H2.) 6-19-74 Reched all convert driver voltages and all read & write currents. Ched the memory Timing on cords \$270 and ready the No. 2

monory from 460 nonoseconds to 520 nanoseconds. Rown the memory worst cust program 303010 A for 11/2 Hrs without on error, T.C.L. (44rs) 4-21-71 Ched + readjusted the photoclivele amplifiers in the High speed render using the neutral density filte method, Replaced a bed do 8 photoshirde CR9. TCL. (31/2.) 8-22-74 pil the following annual routine moint on the compounts.

A, - A G, B, D2

Reched. the line driver voltages the wood twite currents of both memory. also reclied the memory tening on the 4270 cards. Run the memory worse case trope without an error. I (I (5 42s)

2-23-74 The computer was going into a I/o hold with a A-6 your failing and somethings it would bout out. Reched. Its line driver voltages + read & will currents. Try the spare line driver conds of the space current dring cord but it glidet seem to work my belter, Real the read & unte corrento lo approx. 380 MA. and everything chil oh, Run le memory were case lope for 1th without an several limes without or error. To CF. (6/2) 8-26-74 Did the following annual routine mains, on the compute. B2, C5, P, D4, D5, P6. AC. (442) 4-27-71 Rid the following agammal routine myint on the computer. C3. (6 (6)) also ched the rood twite current in both memorys.

8-28-74 Run the 31/2 1/2. composite diagnostic program tape without an error (tich. 3/2/2). Col. Forbore equipment. (6Hrs.) 8-29.74
Cal. Forfore equipment (3Hrs.) D. C. L. 8-30.14 Cal. Foxolore equipment (5 Hm.) I (2, 4-4-74.
Cal. Forbbore egugment. (3 Hrs.) Te-C. 2. 9-5-74 Cal. Forbore equipment. (4Hrs.) T. C. S. 9-17-74 brief to improve the shape of the write t read pulses of memory # 1 by exchanging the memory could of memory # I with the spore kards from star 106 No. improvement 5 Hrs. (2 CL)

9-18-74 Some as 9-17-74 also the conjuter was intermittly going into a I/o half & sometimes into a healt went the power was tuned on toff (642) &CL Enteringed carda Ng. 8242 al locatione 6A+2B and the problem with the computer intomittle going into a I/O hold + something into a halt went to power was turned on t back the way they were and still the prolon was gone, also checked 02 that all outputs from the injects to the 005 are operational, (61/2,) 9.36 World on the above problem but was unable to find anything wrong, (4 Hrs.) DC 9-27-74 There was noise or the computer In 30 and I found that could No. 8712 at localing 2R1 20 A was cousing the problem,

Dso the char, Mod card MU40B-2 in the ch. 30 mod ang, was making a bad Connection in the connector. also chef the RFL bulls and bevelo and gid. the BE BSC. 2 H2. I the comic 2Hz. (GHrs) W.C.P. 9-30+74:10-1+2+3+4)-74 The compater world internittenly go into a I/o hold when the power was tuened on toff, also the memory worse we tope world not un willouf a error, Replaced a bod dala sover cord No. 8639 ont a bod wa sense amp. curd. 8962 both on the upper 3K off menoy. Oloo replaced a bid transister a, 2N 3772 in the upper & K off menony. 28Hm LCR 10-8-74 Rion the memory worse case type for 2Hrs without an error. humef the power on t off 40 times without on error or I/O hold. 4ths. Tel. L

10-9-71 Ren the composite diagnostico program tope without on error. (442, PlCD, 10-17-49 all the following mostly mainst. A2-A6. IC.C. 1/2/12. Olso run the many worse cost type for 2 Urs. willost on error. chod the watch day reday. 3Hrs. LCZ. Put the following reprined curds from the ships at stoe. 106 bears in the computer. 4712 of loc. 2R1-2A, 4639 A loc. H-20 of memory #2, and 8962 at lac. K- 6 of menony # 2. lund the power on + off 15 times without on arrow. Kin the memory worst case lapse No. 303010A for 142, without we serve. It C.L. (4Hrs.)

11-12-74 The computer went into a I/o hold on 11-11-74 + 11-12-74 with a A-C power felice. Reset the line chemic voltages for fill menorgo. Turned the A-c power on + off 10 times willost on The hold, 11-18-74 Did the following mouth maintanance on the computer. A. - A.C. Pun the memory worst case taps 303010 A but I would get errors every 15 or 20 min whom the computer cabinet down where close, When the doors where open I wouldn't get any errors. Unable to find the problem so I left the doors open to L. (4th) 11-20-74 Run the uput logic closed loop diagnostic program + ched all imput & outpit relogs, Everything ched who ched oil the unit I should und and everything out at. IC, S.

12-11-711 Did the following routine maint or the computer. Az-Au B,-Bz so that the motor wasn't so wise. Ind out the ch. 45 Bit 15 + ch. 46 Bit 15 out from the computes of to the termant Box 12-27-14 The computer read outs were not operating right Found a boad RTL-MTY/DIV control of cord No. 6286 replaced it with a sport could from stor 1000. 3Hrs. I C. 12-30-74 Run the composite diagnostic program tupe without an error 3'2Hm. ToCL

-13-75 Replaced a regimes computer conf flood was reprired of the shop of eta 106, Cord Na 6203 at loc. 226. Box the composite diagnostic program tope without an error. 3'2 hr, T.C.L The Solatron power for the computer was moved + I ched + asset - 15-75 the ortput vallage going to the consputs. 1-16-73 Rid the following monthly computer mainst. A2 - Ace, Replaced the following ports in the teletype, the motor intermetials gear motor pinion, because the years where making excessive Ot C.L. 4Hrs.

1-27-75 Replaced a repaired cord. No. 8286 at loc. 13B in the computer. The card was repair at sta. 106 shop. Run the following test topes without an error. Multiply test, Livide test, Menory Word peopon topo (TCS. YHrs.) 2-10-75 Rid the following routine maint, on the computer Ar-Ac, \$ + B2. 2-19-15 Rid the following routine mount on the Computer C2 C1, C5, Power suggly voltages Ryple Model 222 Riple Model 221 2.2 m v. -6 = -5,860 2mv, 3.6 = 3.582 5.0 = 5.008 3. 4 m L. 10= -9,630 2,5 mv. 340m v. -162 -14,840 Model 223 , 9 mg v. 3,6= 3.596 2,9 V. 32.927 +400 Model 223 (Faz rigit) +16 2 1.7mz. 17,357 3,3 mv. 33.120 +35 : 3.60= 3.6 . 68 mx 5.5 m 1 21.000 + 21 2

2.19-75 Alex replace C3,003 upl cop, on the cuto start relay & 2240. 4 Hrs. 2.27.75 down, lubricated, and chock the operation of Do teletypewriter. 4Hm. TCS. 2.28.75 The computer bornhed at 8:30 AM. Run De memon worse case lope for 20 min without a error. Of (. L. 1/2 Hz, Cod the foxbore presone controller and Unit 1 + 2 surge value controller. 3-11-75 Cal. De Fooboel egyponert & C.L. 442. Pid the following smoothly routice maint of the computer Az-A 6 T.C.L. 2H2s.

4-4-75 Modefied the room temperature themostal and cal, added some grounding strops to the computer interface. 4 Kms. The 4-775

PI the following monthly routine
moud on the computer Ar - 46 A C. P. 3Hz,
also Int the col. of the room tempstoline
thermatter for rm. teys along I shallow. 5-9-75 pid the following Quarterly routine mont, on the compute A2-AU, B, + B2 TCY 21/2. Replaced a lood for motor in the middle interpret rock, T.C. J. 3H2s. 5-14-75 5-20.15 Recal the room temperature thermost of for a room Temperature of 80°F.

5-23.75 ched the power cord to the computer to see if I was worm or world get a A.c failure when wood, Everything ded out who. A.C. & "HIs. 6-20-45 Ad the monthly roution month of the computer 2Ha, T.C. & 7-14-75 the computer brubed out because of a A.C power interruption the night before. Turned the pouce on off. Pour Fail - auto restort tope + ched the A - occumulation (It lad 102). Ru the Memory Worst Core tope for 45 min withofan error; J.C.f. (2 Hrs.) 7-23-75 Monthly routine maint of the computer A2 - A6. Ch. the Cal. of the room Temp Thermostor TEL. (4Hhz)

8-8-75

Pid the following annually routine
mand. on the computer A2-A6, B, & B2, C2, C5, P5 8-8-75 Power supply voltages Riple Model 221 Model 222 Ripple 3.6 Vally = 3,60 2,0 m L, -6 Valts 2 5,86 2 mv. 2,95 41, 2.6mv 5.0 Volts = 5.03 -10 Valts 2 9.61 345 ml. Model 223 Ryple -16 Valle : 14.85 3,602 , 42 mr. +40 Valts 2 32.97 2.9 V. Mode 223 (Far right) +16 Valls: 17,35 1.65 mv. 3 6 Valt 2 3,595 - 2.5 mx 35 Valte: 33,08 3,3 mv, (6/hs. 2(7) 21 Volls = 21,00 .5244, Put the following annually vorting mains on the computer. (3, 5 TC. J. 4Hz. 8-11.75 Pid the following annually routine maint.

9-25-15 Did the following monthly routine maint of the computer. A. - AG. GCS. 242. 10-10-75 pid the following monthly routine moint of the computer A1-A6 TCL. SHz. 11-21-75 Rid the following style awarterly contine maid of the computer A 2-A 6, B, + B 2. T-E L. 2-17.75
Had a bomb out on the maght of 12-16-75.
Run the composite diagnostic program type 12-17-75 to the out the computer, Everything chel' out oh. The C. L. 4Hrs. 12-19.75 Rid the following monthly Noutre main! of the computer. A.- 16 9 C. L. 24/2. 1-30.76 Ped the following monthly montine maint of the computer A1-A6 Th (L. 2Hz.) Oleo replaced a lod muffin from at the battom Fact comoger of the upper & 14 memory rack.

2-13-76 Did the following quarterly routine moint. of the computer. A2-A0, B, +B2 TCL 4H2, 2-23-76 Reprogrammed the computer with a new programme tape dated 2-12.76 ac. 4, 3-12-74 at 5:44 PM the day before there was a A. C power failure and the computer failed to go but into penole mode. Ohd the power foil - and realor corrents very the date control sto. test tope. also tend the power on toff to the solution 10 time without the peoblem, Everything that out or. 2 hrs. ACL 3-29-76 Did the following monthly routies main't of the computer A1-A6 TC P. 2 Hz, 4.15.76 Rid the following monthly voulie mound. of the compate A. A. T.C. Z. Like,

4-28-76 Reprogrammed the computer with a new program tope deted 4-22-76 CL. 4/hr 5-2.76 Replaced the Rivon modern with a modified one from the shop at STA. 186. Pil the following quarterly routed maistuf the computer - AI-AG, BI+B2. T.C.L. 6-11-76 The To of transmilly from the company Let chicago now low the Just 2023 mights. tound a bad river orrolan cord and replaced it with one from the shop at she 106, Run a test with the slop of shall for 1'2Hz and everything look good, T.C. 21/2 Hon

10-26-81 Replaced a bod Model 221 3.645 Valt power supply. Gol a replacement from 106. Reget 3.6 45 Valt pole. Tracy Lish